

INPUT SET: S3069.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

1 SEQUENCE LISTING

3 (1) General Information:

5 (i) APPLICANT: Holly, Richard D
6 Lok, Si
7 Foster, Donald C
8 Hagen, Frederick S
9 Kaushansky, Kenneth
10 Kuijper, Joseph L
11 Lofton-Day, Catherine E
12 Oort, Pieter J
13 Burkhead, Steven K

ENTERED

15 (ii) TITLE OF INVENTION: HEMATOPOIETIC PROTEIN AND MATERIALS AND
16 METHODS FOR MAKING IT

18 (iii) NUMBER OF SEQUENCES: 29

19
20 (iv) CORRESPONDENCE ADDRESS:
21 (A) ADDRESSEE: ZymoGen
22 (B) STREET: 4225 Roosevelt
23 (C) CITY: Seattle
24 (D) STATE: WA
25 (E) COUNTRY: USA
26 (F) ZIP: 98105

28 (v) COMPUTER READABLE FORM:
29 (A) MEDIUM TYPE: Floppy disk
30 (B) COMPUTER: IBM PC compatible
31 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
32 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25

34 (vi) CURRENT APPLICATION DATA:
35 (A) APPLICATION NUMBER:
36 (B) FILING DATE:
37 (C) CLASSIFICATION:

39 (viii) ATTORNEY/AGENT INFORMATION:
40 (A) NAME: Parker, Gary E
41 (B) REGISTRATION NUMBER: 31-648
42 (C) REFERENCE/DOCKET NUMBER: 93-12C3

43
44 (ix) TELECOMMUNICATION INFORMATION:
45 (A) TELEPHONE: 206-547-8080 ext 322
46 (B) TELEFAX: 206-547-2329

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/252,491DATE: 06/16/94
TIME: 11:12:08

INPUT SET: S3069.raw

47
 48
 49 (2) INFORMATION FOR SEQ ID NO:1:
 50
 51 (i) SEQUENCE CHARACTERISTICS:
 52 (A) LENGTH: 1486 base pairs
 53 (B) TYPE: nucleic acid
 54 (C) STRANDEDNESS: double
 55 (D) TOPOLOGY: linear
 56
 57 (ii) MOLECULE TYPE: cDNA
 58
 59
 60 (vii) IMMEDIATE SOURCE:
 61 (B) CLONE: 1081
 62
 63 (ix) FEATURE:
 64 (A) NAME/KEY: CDS
 65 (B) LOCATION: 105..1241
 66
 67
 68 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
 69
 70 CCTCGTGCCG GTCCTGAGGC CCTTCTCCAC CCGGACAGAG TCCTTGGCCC ACCTCTCTCC 60
 71
 72 CACCCGACTC TGCCGAAAGA AGCACAGAAG CTCAAGCCGC CTCC ATG GCC CCA GGA 116
 73 Met Ala Pro Gly
 74 1
 75
 76 AAG ATT CAG GGG AGA GGC CCC ATA CAG GGA GCC ACT TCA GTT AGA CAC 164
 77 Lys Ile Gln Gly Arg Gly Pro Ile Gln Gly Ala Thr Ser Val Arg His
 78 5 10 15 20
 79
 80 CTG GCC AGA ATG GAG CTG ACT GAT TTG CTC CTG GCG GCC ATG CTT CTT 212
 81 Leu Ala Arg Met Glu Leu Thr Asp Leu Leu Ala Ala Met Leu Leu
 82 25 30 35
 83
 84 GCA GTG GCA AGA CTA ACT CTG TCC AGC CCC GTA GCT CCT GCC TGT GAC 260
 85 Ala Val Ala Arg Leu Thr Leu Ser Ser Pro Val Ala Pro Ala Cys Asp
 86 40 45 50
 87
 88 CCC AGA CTC CTA AAT AAA CTG CTG CGT GAC TCC CAC CTC CTT CAC AGC 308
 89 Pro Arg Leu Leu Asn Lys Leu Leu Arg Asp Ser His Leu Leu His Ser
 90 55 60 65
 91
 92 CGA CTG AGT CAG TGT CCC GAC GTC GAC CCT TTG TCT ATC CCT GTT CTG 356
 93 Arg Leu Ser Gln Cys Pro Asp Val Asp Pro Leu Ser Ile Pro Val Leu
 94 70 75 80
 95
 96 CTG CCT GCT GTG GAC TTT AGC CTG GGA GAA TGG AAA ACC CAG ACG GAA 404
 97 Leu Pro Ala Val Asp Phe Ser Leu Gly Glu Trp Lys Thr Gln Thr Glu
 98 85 90 95 100
 99

RAW SEQUENCE LISTING
PATENT APPLICATION **US/08/252,491**DATE: 06/16/94
TIME: 11:12:14**INPUT SET: S3069.raw**

100	CAG AGC AAG GCA CAG GAC ATT CTA GGG GCA GTG TCC CTT CTA CTG GAG	452
101	Gln Ser Lys Ala Gln Asp Ile Leu Gly Ala Val Ser Leu Leu Leu Glu	
102	105 110 115	
103		
104	GGA GTG ATG GCA GCA CGA GGA CAG TTG GAA CCC TCC TGC CTC TCA TCC	500
105	Gly Val Met Ala Ala Arg Gly Gln Leu Glu Pro Ser Cys Leu Ser Ser	
106	120 125 130	
107		
108	CTC CTG GGA CAG CTT TCT GGG CAG GTT CGC CTC CTC TTG GGG GCC CTG	548
109	Leu Leu Gly Gln Leu Ser Gly Gln Val Arg Leu Leu Leu Gly Ala Leu	
110	135 140 145	
111		
112	CAG GGC CTC CTA GGA ACC CAG CTT CCT CTA CAG GGC AGG ACC ACA GCT	596
113	Gln Gly Leu Leu Gly Thr Gln Leu Pro Leu Gln Gly Arg Thr Thr Ala	
114	150 155 160	
115		
116	CAC AAG GAC CCC AAT GCC CTC TTC TTG AGC TTG CAA CAA CTG CTT CGG	644
117	His Lys Asp Pro Asn Ala Leu Phe Leu Ser Leu Gln Gln Leu Leu Arg	
118	165 170 175 180	
119		
120	GGA AAG GTG CGC TTC CTG CTT CTG GTA GAA GGT CCC ACC CTC TGT GTC	692
121	Gly Lys Val Arg Phe Leu Leu Val Glu Gly Pro Thr Leu Cys Val	
122	185 190 195	
123		
124	AGA CGG ACC CTG CCA ACC ACA GCT GTC CCA AGC AGT ACT TCT CAA CTC	740
125	Arg Arg Thr Leu Pro Thr Thr Ala Val Pro Ser Ser Thr Ser Gln Leu	
126	200 205 210	
127		
128	CTC ACA CTA AAC AAG TTC CCA AAC AGG ACT TCT GGA TTG TTG GAG ACG	788
129	Leu Thr Leu Asn Lys Phe Pro Asn Arg Thr Ser Gly Leu Leu Glu Thr	
130	215 220 225	
131		
132	AAC TTC AGT GTC ACA GCC AGA ACT GCT GGC CCT GGA CTT CTG AGC AGG	836
133	Asn Phe Ser Val Thr Ala Arg Thr Ala Gly Pro Gly Leu Leu Ser Arg	
134	230 235 240	
135		
136	CTT CAG GGA TTC AGA GTC AAG ATT ACT CCT GGT CAG CTA AAT CAA ACC	884
137	Leu Gln Gly Phe Arg Val Lys Ile Thr Pro Gly Gln Leu Asn Gln Thr	
138	245 250 255 260	
139		
140	TCC AGG TCC CCA GTC CAA ATC TCT GGA TAC CTG AAC AGG ACA CAC GGA	932
141	Ser Arg Ser Pro Val Gln Ile Ser Gly Tyr Leu Asn Arg Thr His Gly	
142	265 270 275	
143		
144	CCT GTG AAT GGA ACT CAT GGG CTC TTT GCT GGA ACC TCA CTT CAG ACC	980
145	Pro Val Asn Gly Thr His Gly Leu Phe Ala Gly Thr Ser Leu Gln Thr	
146	280 285 290	
147		
148	CTG GAA GCC TCA GAC ATC TCG CCC GGA GCT TTC AAC AAA GGC TCC CTG	1028
149	Leu Glu Ala Ser Asp Ile Ser Pro Gly Ala Phe Asn Lys Gly Ser Leu	
150	295 300 305	
151		
152	GCA TTC AAC CTC CAG GGT GGA CTT CCT CCT TCT CCA AGC CTT GCT CCT	1076

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/252,491DATE: 06/16/94
TIME: 11:12:19

INPUT SET: S3069.raw

153	Ala Phe Asn Leu Gln Gly Gly Leu Pro Pro Ser Pro Ser Leu Ala Pro		
154	310	315	320
155			
156	GAT GGA CAC ACA CCC TTC CCT CCT TCA CCT GCC TTG CCC ACC ACC CAT		1124
157	Asp Gly His Thr Pro Phe Pro Pro Ser Pro Ala Leu Pro Thr Thr His		
158	325	330	335
159			340
160	GGA TCT CCA CCC CAG CTC CAC CCC CTG TTT CCT GAC CCT TCC ACC ACC		1172
161	Gly Ser Pro Pro Gln Leu His Pro Leu Phe Pro Asp Pro Ser Thr Thr		
162	345	350	355
163			
164	ATG CCT AAC TCT ACC GCC CCT CAT CCA GTC ACA ATG TAC CCT CAT CCC		1220
165	Met Pro Asn Ser Thr Ala Pro His Pro Val Thr Met Tyr Pro His Pro		
166	360	365	370
167			
168	AGG AAT TTG TCT CAG GAA ACA TAGCGCGGGC ACTGGCCCAG TGAGCGTCTG		1271
169	Arg Asn Leu Ser Gln Glu Thr		
170	375		
171			
172	CAGCTTCTCT CGGGGACAAG CTTCCCCAGG AAGGCTGAGA GGCAGCTGCA TCTGCTCCAG		1331
173			
174	ATGTTCTGCT TTCACCTAAA AGGCCCTGGG GAAGGGATAC ACAGCACTGG AGATTGTAAA		1391
175			
176	ATTTTAGGAG CTATTTTTT TTAACCTATC AGCAATATTC ATCAGAGCAG CTAGCGATCT		1451
177			
178	TTGGTCTATT TTCGGTATAA ATTTGAAAAT CACTA		1486
179			
180			
181	(2) INFORMATION FOR SEQ ID NO:2:		
182			
183	(i) SEQUENCE CHARACTERISTICS:		
184	(A) LENGTH: 379 amino acids		
185	(B) TYPE: amino acid		
186	(D) TOPOLOGY: linear		
187			
188	(ii) MOLECULE TYPE: protein		
189			
190	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:		
191			
192	Met Ala Pro Gly Lys Ile Gln Gly Arg Gly Pro Ile Gln Gly Ala Thr		
193	1	5	10
194			15
195	Ser Val Arg His Leu Ala Arg Met Glu Leu Thr Asp Leu Leu Ala		
196	20	25	30
197			
198	Ala Met Leu Leu Ala Val Ala Arg Leu Thr Leu Ser Ser Pro Val Ala		
199	35	40	45
200			
201	Pro Ala Cys Asp Pro Arg Leu Leu Asn Lys Leu Leu Arg Asp Ser His		
202	50	55	60
203			
204	Leu Leu His Ser Arg Leu Ser Gln Cys Pro Asp Val Asp Pro Leu Ser		
205	65	70	75
			80

RAW SEQUENCE LISTING
PATENT APPLICATION *US/08/252,491*DATE: 06/16/94
TIME: 11:12:25INPUT SET: *S3069.raw*

206
207 Ile Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu Gly Glu Trp Lys
208 85 90 95
209
210 Thr Gln Thr Glu Gln Ser Lys Ala Gln Asp Ile Leu Gly Ala Val Ser
211 100 105 110
212
213 Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln Leu Glu Pro Ser
214 115 120 125
215
216 Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln Val Arg Leu Leu
217 130 135 140
218
219 Leu Gly Ala Leu Gln Gly Leu Leu Gly Thr Gln Leu Pro Leu Gln Gly
220 145 150 155 160
221
222 Arg Thr Thr Ala His Lys Asp Pro Asn Ala Leu Phe Leu Ser Leu Gln
223 165 170 175
224
225 Gln Leu Leu Arg Gly Lys Val Arg Phe Leu Leu Leu Val Glu Gly Pro
226 180 185 190
227
228 Thr Leu Cys Val Arg Arg Thr Leu Pro Thr Thr Ala Val Pro Ser Ser
229 195 200 205
230
231 Thr Ser Gln Leu Leu Thr Leu Asn Lys Phe Pro Asn Arg Thr Ser Gly
232 210 215 220
233
234 Leu Leu Glu Thr Asn Phe Ser Val Thr Ala Arg Thr Ala Gly Pro Gly
235 225 230 235 240
236
237 Leu Leu Ser Arg Leu Gln Gly Phe Arg Val Lys Ile Thr Pro Gly Gln
238 245 250 255
239
240 Leu Asn Gln Thr Ser Arg Ser Pro Val Gln Ile Ser Gly Tyr Leu Asn
241 260 265 270
242
243 Arg Thr His Gly Pro Val Asn Gly Thr His Gly Leu Phe Ala Gly Thr
244 275 280 285
245
246 Ser Leu Gln Thr Leu Glu Ala Ser Asp Ile Ser Pro Gly Ala Phe Asn
247 290 295 300
248
249 Lys Gly Ser Leu Ala Phe Asn Leu Gln Gly Gly Leu Pro Pro Ser Pro
250 305 310 315 320
251
252 Ser Leu Ala Pro Asp Gly His Thr Pro Phe Pro Pro Ser Pro Ala Leu
253 325 330 335
254
255 Pro Thr Thr His Gly Ser Pro Pro Gln Leu His Pro Leu Phe Pro Asp
256 340 345 350
257
258 Pro Ser Thr Thr Met Pro Asn Ser Thr Ala Pro His Pro Val Thr Met

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION **US/08/252,491**

DATE: 06/16/94
TIME: 11:12:30

INPUT SET: S3069.raw

Line

Error

Original Text